

**Notice of Allowability**

Application No.

10/699,761

Applicant(s)

GUPTA ET AL.

Examiner

Ramnandan Singh

Art Unit

2614

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to July 25, 2007.
2. ☒ The allowed claim(s) is/are 1-5, 7-19 and 21-31.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                                |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                              |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance             |
|  | 9. <input type="checkbox"/> Other _____  |

### DETAILED ACTION

1. This action is in response to applicant's response filed on July 25, 2007. **Claims 1-5, 7-31** are pending in the present application.

### 2. EXAMINER'S AMENDMENT/COMMENT

Applicant has agreed to the following amendment during his telephonic interview with the Examiner held on Oct 10, 2007:

1) In the specification:

Page # 2, line # 29, change "a ratio" to—at least a portion --.

2) In the claims:

(i) Claim 1, line # 4 , delete "and an echo signal".

(ii) Claim 1, line # 4, after "a replica signal" —including an echo signal and a cross-talk signal—has been inserted.

(iii) Claim 16, line # 2, after "a far end signal,"—an echo signal and a cross-talk signal,-- has been inserted.

(iv) Claim 31, line # 4 , delete "and an echo signal".

(v) Claim 31, line # 4, after "a replica signal" —including an echo signal and a cross-talk signal—has been inserted.

(vi) Claim 20 is cancelled.

The Interview summary is enclosed.

### REASONS FOR ALLOWANCE

3. The following is an examiner's statement of reasons for allowance:

This invention relates to a method for transmitting and receiving communication signals in a high-speed full-duplex transceiver. Claim 16 identifies the uniquely distinct feature of the method, comprising: sampling and holding N versions of the first signal with N clock signals, and wherein a phase of each of the N clock signals relative to the other (N-1) clock signals is dependent on the value of N. The specification supports this limitation [Page 6, lines 7-13; Page 8, lines 1-9; Figs. 4-5]. The prior art of record does not teach this limitation. Therefore, claim 16 is indicated allowable.

Claims 1 and 31 are essentially similar to claim 16 and hence are indicated allowable. Further, claims 2-5 and 7-15 being dependent from claim 1, and claims 17-19 and 21-30 being dependent from claim 16 are also indicated allowable.

New search updates reveal no other prior art which teaches the limitation in the context of the claims.

4. The claims have been re-numbered as follows:

| CLAIMS NUMBER (ORIGINAL) | CLAIMS NUMBER (FINAL) |
|--------------------------|-----------------------|
| 1-5                      | 1-5                   |
| 7-19                     | 6-18                  |
| 21-31                    | 19-29                 |

Claim no. 1 along with figure number 5 will be published in the Official Gazette.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramnandan Singh whose telephone number is (571) 272-7529. The examiner can normally be reached on M-TH (8:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fan Tsang can be reached on (571) 272-7547. The

fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ramnandan Singh  
Primary Examiner  
Art Unit 2614

A handwritten signature in black ink, appearing to read 'Ramnandan Singh', written over a horizontal line.